

Title (en)

An ignition system for an internal combustion engine for motor vehicles, particularly of the static-distribution type.

Title (de)

Zündungssystem für innere Brennkraftmaschinen von Fahrzeugen, insbesondere vom statischen Verteilertyp.

Title (fr)

Système d'allumage pour moteur à combustion interne automobile, en particulier du type à distribution statique.

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Application

EP 88830500 A 19881122

Priority

IT 6813987 A 19871229

Abstract (en)

The invention relates to an ignition system, particularly of the static-distribution type, in which a respective ignition coil (C) with a primary winding (5) and a secondary winding (6) is coupled to the sparking plug (SP) associated with each cylinder. The system includes a respective switching transistor (T) for each ignition coil (C) and control circuit devices (4, 7 -11) which, in order to generate a spark in a plug (SP), cause a first switching of the corresponding transistor (T) from the shut-off condition to the conducting condition to start the flow of current in the primary winding (5) of the associated coil (C), and a second switching to the shut-off condition to stop the flow of current in the coil (C), causing the striking of the spark. These control circuit devices (4, 7 - 11) are arranged to control the speed of the first switching of the transistor or transistors (T) concerned from time to time, for each ignition, so that the first switching takes place gradually at a speed less than a predetermined value. The amplitude of the voltage peak which is applied to the sparking plug (SP) in correspondence with the first switching is thus drastically reduced.

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CPC (source: EP)

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Cited by

DE10130474B4; DE10109853B4; DE102004013561A1; DE102004013561B4; DE19741963C1; DE19741439A1; DE19612201A1; EP0458762A1; US5115793A; US6257216B1; WO9413950A1

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